

WHAT IS CLAIMED IS:

1 1. For use in association with a subscriber premises, an
2 apparatus for interconnecting a plurality of communications
3 mediums, comprising:

4 a controller for coupling and de-coupling said plurality
5 of communications mediums to a communication system disposed within
6 said subscriber premises, wherein said communications mediums
7 comprise at least one public service telephone network line and at
8 least one non-public service telephone network line,;

9 a detector circuit for detecting a loss of power to said
10 at least one non-public service telephone line and in response to
11 said loss of power, utilizing at least one relay device to connect
12 said non-public service telephone line to said at least one public
13 service telephone network line; and

14 a backup power supply comprising:

15 a controller for operating said backup power supply,
16 controlling said backup power supply temperature and enabling
17 said AC/DC adapter to charge said backup power supply;

18 a temperature sensing circuit for monitoring said
19 backup power supply operating temperature; and

20 a voltage measuring circuit for monitoring said
21 backup power supply voltage.

1 2. The interconnect apparatus as set forth in Claim 1
2 further comprising interconnection with a radio frequency
3 transceiver for transmitting and receiving wireless communications
4 from a wireless network.

1 3. The interconnect apparatus as set forth in Claim 2
2 wherein said wireless network is a fixed wireless network.

1 4. The interconnect apparatus as set forth in Claim 1
2 further comprising a broadband interface for transmitting and
3 receiving broadband data communications including cable modem,
4 digital subscriber line, fiber optic and wireless broadband.

1 5. The interconnect apparatus as set forth in Claim 1
2 further comprising a switch for connecting said non-public service
3 telephone network with said public service telephone network.

1 6. The interconnect apparatus as set forth in Claim 5
2 further comprising a telemetry/control circuit for remotely
3 monitoring and controlling said backup battery power supply.

1 7. The interconnect apparatus as set forth in Claim 1
2 further comprising an interface for receiving said at least one
3 standard voice frequency communication line that is connected to
4 the public service telephone network and said at least one non-
5 public service telephone network communication line.

1 8. For use in association with a wireless network, an
2 apparatus comprising:

3 an access processor for interconnecting said wireless
4 network with said public service telephone network;

5 a plurality of remote base transceiver stations connected
6 to said access processor via remote modems wherein said remote
7 modems communicate via an air interface with multiple individual
8 subscriber interface access devices associated with respective
9 subscriber premises; and

10 an apparatus for interconnecting a plurality of
11 communications mediums at said subscriber premises, comprising:

12 a controller for coupling and de-coupling said
13 plurality of communications mediums to a communication system
14 disposed within said subscriber premises, wherein said
15 communications mediums comprise at least one public service
16 telephone network line and at least one non-public service
17 telephone network line,;

18 a detector circuit for detecting a loss of power to said
19 at least one non-public service telephone line and in response
20 to said loss of power, utilizing at least one relay device for
21 connecting said non-public service telephone line to said at
22 least one public service telephone network line; and

23 a backup power supply comprising:

24 a controller for operating a said backup power
25 supply, controlling said backup power supply
26 temperature and enabling said AC/DC adapter to
27 charge said backup power supply;

28 a temperature sensing circuit for monitoring said
29 backup power supply operating temperature; and

30 a voltage measuring circuit for monitoring said
31 backup power supply voltage.

1 9. The apparatus as set forth in Claim 8 wherein said
2 wireless network is a fixed wireless network.

1 10. The apparatus as set forth in Claim 8 further comprising
2 interconnection with a radio frequency transceiver for transmitting
3 and receiving wireless communications from a wireless network.

1 11. The apparatus as set forth in Claim 8 further comprising
2 a broadband interface for transmitting and receiving broadband data
3 communications including cable modem, digital subscriber line,
4 fiber optic and wireless broadband.

1 12. The apparatus as set forth in Claim 8 further comprising
2 a switch for connecting said non-public service telephone network
3 with said public service telephone network.

1 13. The apparatus as set forth in Claim 8 further comprising
2 a telemetry/control circuit for remotely monitoring and controlling
3 said backup power supply.

1 14. The apparatus as set forth in Claim 8 further comprising
2 an interface for receiving at least one standard voice frequency
3 communication line that is connected to the public service
4 telephone network and at least one said non-public service
5 telephone network communication line.

1 15. For use in a fixed wireless network, a method for
2 interconnecting a plurality of communications mediums at a
3 subscriber's premises, comprising the steps of:

4 coupling and de-coupling said plurality of communications
5 mediums, to a communication system disposed within said subscriber
6 premises, wherein said communications mediums comprise at least one
7 public service telephone network line and at least one non-public
8 service telephone network line,;

9 detecting a loss of power to said at least one non-public
10 service telephone line and in response to said loss of power,
11 switching said non-public service telephone line to said at least
12 one public service telephone network line; and

13 utilizing a backup power supply connected to an AC/DC
14 adapter, comprising:

15 a controller for operating said DC battery power
16 supply, controlling said backup power supply temperature
17 and enabling said AC/DC adapter to charge said backup
18 power supply;

19 a temperature sensing circuit for monitoring said
20 backup power supply operating temperature; and

21 a voltage measuring circuit for monitoring said
 backup power supply voltage.

1 16. The method as set forth in Claim 15 further comprising
2 transmitting and receiving wireless communications from a wireless
3 network.

1 17. The method as set forth in Claim 15 further comprising
2 the steps of transmitting and receiving broadband data
3 communications including cable modem, digital subscriber line,
4 fiber optic and wireless broadband via a broadband interface
5 interconnected with said controller.

1 18. The method as set forth in Claim 1 further comprising the
2 step of
3 connecting said non-public service telephone network with
4 said public service telephone network; and
5 remotely monitoring and controlling said backup power
6 supply.

1 19. The method as set forth in Claim 1 further comprising the
2 step of providing a fail-over connection between said at least one
3 primary public service telephone network line and all said non-
4 public service telephone network lines utilizing at least one relay
5 device.

1 20. The method as set forth in Claim 1 further comprising
2 connecting at least one standard voice frequency communication and
3 at least one non-public service telephone network line to an
4 interface that is connected to said subscriber premises.